

Ilya Nudnou

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<https://nudnouil.com/>

SUMMARY

I am a computational vision science researcher, and I enjoy the analytical, programming, & collaborative aspects of research. I aim to provide the most precise answer possible based on the original question, using various data modalities and methods. I can identify efficient ways of answering complex questions and summarize conclusions for non-expert audiences. I love communicating with and mentoring colleagues on data & programming-related challenges!

EXPERIENCE

Graduate Researcher

Aug 2020 – May 2025

North Dakota State University | Fargo, ND

- Collaborated with team members across 3+ sites for a world video database study with over 200 hours of data, managing our site's database via SQL, Linux, & Git
- Supervised & mentored 10+ research assistants as they completed data collection & analysis and developed manuscripts in the lab by being their first point of contact
- Presented research across 5+ conferences in US and Canada and during many department meetings & events with various networking and collaboration opportunities
- Calibrated and troubleshoot eye-tracking hardware & software implementation on Windows and Linux machines via Python and the command-line
- Designed 15+ data analysis pipelines via Python, Matlab, & R-Studio involving: regression, SVM, MDS, GMM, NLP, fine-tuned CNNs, & image-level features
- Conducted literature reviews (indexing 50+ articles each) for over 10 laboratory projects
- Contributed to 5+ manuscripts, 3 being first-author papers with over 5000 words each
- Conducted 10+ data collection designs in-person and online via SONA, PsychoPy, PsychoJS, Qualtrics, Pavlovia, MTurk, and Prolific involving over 1000 participants

Course Instructor

Jan 2023 – May 2024

North Dakota State University | Fargo, ND

- Taught: Research Methods (x2), Attention & Thinking; Memory & Knowledge (TA)
- Prepared and fine-tuned all aspects of the course (slides, quizzes, assignments)
- Adapted existing syllabi to incorporate latest learning objectives (e.g. AI, research tools)
- Designed hands-on learning opportunities via class discussion exercises and written assignments with comprehensive feedback used by students to improve their work
- Incorporated online and asynchronous components into my assessment schedule, extensively using advanced survey, zoom, and blackboard tools to streamline classes
- Communicated one-on-one with 40+ students to assist with learning outcomes
- Adapted assessments to be robust to generative AI use by students

EDUCATION

North Dakota State University | Ph.D., Psychology

2025

North Dakota State University | M.S., Psychology

2022

University of Toronto | B.S., Psychology (Honors)

2017

SKILLS

- Programming (Python, Matlab, R, Javascript, HTML)
- Machine Learning (SVM, CNN, NLP, MDS, PCA)
- Data Management (Excel, SQL, Qualtrics, REDCap)
- Data Analysis (RStudio, SPSS, SAS, JASP)
- Data Visualization (Power BI, Plotly, Seaborn)
- Time Management
- Communicating
- Public Speaking
- Visualizing
- Writing